AMENDMENTS TO THE CLAIMS

- 1. (Original) A shape-memory resin having a glass transition temperature (Tg) within the range of 40° C to 200° C and crosslinked by a thermoreversible reaction in which a covalent bond is formed by cooling and dissociated by heating, wherein a dissociation temperature (Td) of the thermoreversible reaction is 50° C to 300° C and satisfying the relationship: Tg + 10° C \leq Td; and a transforming temperature at shape memorizing and shape recovering is not less than Tg and less than Td.
- 2. (Original) The shape-memory resin according to claim 1, wherein the thermoreversible reaction is at least one type of reaction selected from the group consisting of Diels-Alder reaction, nitroso dimerization reaction, acid anhydride esterification reaction, urethanization reaction, azlactone-hydroxyaryl reaction and carboxyl-alkenyloxy reaction.
- 3. (Currently amended) The shape-memory resin according to claim 1 or 2, wherein the resin is reshapable at a temperature of Td to less than the decomposition temperature of the resin.
- 4. (Currently amended) The shape-memory resin according to any one of claims 1 to 3 claim 1, wherein the resin is biodegradable.
- 5. (Original) The shape-memory resin according to claim 4, wherein the resin is composed of a plant-derived resin as a raw material.
- 6. (Original) The shape-memory resin according to claim 5, wherein the resin is composed of polylactic acid as a raw material.

Docket No.: W1878.0233

- 7. (Original) The shape-memory resin according to claim 6, wherein the resin is a crosslinked product of polylactic acid in a cool state obtained through the Diels-Alder reaction.
- 8. (Original) The shape-memory resin according to claim 6, wherein the resin is a crosslinked product of polylactic acid in a cool state obtained through a carboxylalkenyloxy reaction.
- 9. (Currently amended) The shape-memory resin according to any one of claims 1 to 8 claim 1, wherein the resin has a Tg of 40°C to 100°C.
- 10. (Currently amended) The shape-memory resin according to any one of claims 1 to 9 claim 1, wherein the resin in a cool state has a crosslink density of 0.0001 to 1.
- 11. (Currently amended) A shaped product composed of a crosslinked product of the shape-memory resin according to any one of claims 1 to 10 claim 1.
- 12. (Currently amended) A shaped product obtained by shaping the crosslinked product of the shape-memory resin according to any one of claims 1 to 10 claim 1 into a predetermined shape to be memorized at a temperature of Td to less than the decomposition temperature of the resin, transforming the shaped product obtained at a temperature of not less than Tg and less than Td, and cooling the transformed product to a temperature less than Tg, thereby fixing a transformed shape.

Application No. Not Yet Assigned Amendment dated June 12, 2006 First Preliminary Amendment Docket No.: W1878.0233

13. (Original) A method of using a shaped product of a shape-memory resin wherein the shaped product according to claim 12 is heated to a temperature of not less than Tg and less than Td, thereby recovering a predetermined original shape memorized.

14. (Currently amended) A method of reshaping a shaped product of a shapememory resin wherein the shaped product according to claim 11-or 12 is melted at a temperature from Td to less than the decomposition temperature of the resin.

15. (New) A method of reshaping a shaped product of a shape-memory resin wherein the shaped product according to claim 12 is melted at a temperature from Td to less than the decomposition temperature of the resin.